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ABSTRACT OF THE DISCLOSURE

A current detector has a semiconductor Hall-effect device having a primary semiconductor region where a Hall voltage develops in proportion to the magnitude of the current to be detected. A conductor strip for carrying this current is formed on the semiconductor substrate via a plurality of insulating layers so as to extend around the primary semiconductor region of the Hall-effect device. In order to protect the Hall-effect device from inductive noise, a shielding layer of molybdenum or the like is interposed between the semiconductor substrate and the conductor strip, preferably by being sandwiched between the insulating layers.

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